



Energid Engineering Services

Unlock the full potential of Actin and reduce your time to market by leveraging the expertise of our services team

Energid provides robotics consulting services to help you meet the evolving requirements and challenges in building advanced robotic systems. Energid's expert team has worked with customers to create state-of-the-art robotic systems in many different industries, including manufacturing, energy, inspection, agriculture, aerospace, subsea, medical, and transportation. Our team can help you decrease your time to market, increase your development team's productivity, mitigate risk and take your robotic system designs to the next level.

WHAT WE OFFER

Our engineers work with you to design, simulate, analyze, iteratively build, and control an advanced robotic system tailored to your needs. Your success depends on your ability to provide a quality and on-time solution in an ever-changing business environment. We allow you to focus on what is important to your market and we can handle the robotic control with the Actin SDK and Energid Services.



OUR APPROACH

We tailor each engagement to the customer's specific needs. A typical engineering services engagement progresses through some or all of the following 7 phases:

- Phase 1.** Conduct a **Feasibility Study** in which we determine technology fit for the Actin SDK.
- Phase 2.** Reduce time spent in the development phase with a **Simulation Study**. Simulate and analyze your robotic system to provide quick validation of your design concept.
- Phase 3.** When embarking on a new challenging technology, we can assist you with developing a focused **Proof of Concept** to verify the functionality of a critical concept and offer ideas on how to best achieve your requirements.
- Phase 4.** Develop a **Project Specification** that includes a detailed roadmap and key milestones. We work with you to understand the requirements and options available and put a development plan in place to meet your program's goal. We strive to support an optimal balance between cost, time and quality while maintaining the maximum number of options at any project stage.
- Phase 5.** Once the project definitions and specifications are complete, we can collaborate on the **System Development**. We focus on the core robotic control and free your team to focus on what you need the robot to do.
- Phase 6.** Conduct **Integration and Test** activities with final hardware. We work as part of your team or independently to validate product and ensure quality.
- Phase 7.** We support you for future Actin SDK releases and new features. You can rest assured that your software investments are protected for the long term with **Maintenance and Upgrades** support.

Energid Consulting Services Packages

Energid provides expert robotic system design and integration packages to help you at all phases of your system development. These packages include studies, hands-on training, on-site and virtual consulting, customer teaming agreements and custom product development. Energid engineers focus on providing practical solutions with a strong emphasis on teamwork to ensure on-schedule delivery of each customer's project.

Architecture Study - Provides your team access to Energid's engineering experience to make the best architectural and design decisions early on in your project planning to meet your technical and business goals.

Simulation Study - Provides concept predictability and other valuable information to help guide a project in its earliest stages. The information exposed through a Simulation Study can decrease a product's time to market or a system's time to deployment considerably as this approach allows for smaller corrections sooner rather than more substantial - and potentially costly - corrections later. Simulation Studies are completed to provide validation and direction for conceptual robotic applications using customer specified virtual hardware in Actin that can be utilized and expanded in later project stages.

Integration Study - A crucial part of what the services team can provide is recommending and/or integration of commercial/custom robot arms, sensors, controllers and sensing systems into the Actin SDK. Our customers are increasingly demanding these platform-level solutions rather than building blocks. Leverage our knowledge of solving complex hardware, software, and integration problems to bring your product to market on time.

CUSTOM SDK DEVELOPMENT

Custom development all begins with the Actin SDK. Energid's expertise and experience in creating advanced robotic systems are leveraged to customize Actin to meet requirements for a wide range of applications.

Frequently requested customizations include:

- **New Features** - Collaborate with our team of engineers on new feature implementations that put your product out ahead of the competition
- **New Algorithms** - Innovate faster with new, unique, industry-differentiating algorithms
- **Integrations** - Ensure seamless integration by allowing us to port the Actin SDK to new Controller Hardware or Operating Systems
- **GUI Development** - Let us help you capture the full potential and ease of use of your robotic control system with custom GUI development
- **Ports** - Fast-track integration into existing infrastructure and let us add support for specific communications protocols required for specific markets

TRAINING

Actin training is a tailored and comprehensive hands-on training program designed to help our customers rapidly acquire the skills needed to use the Actin SDK.

SUPPORT

Actin Support Packages provide a combination remote and on-site access to Energid expertise. An Energid expert can assist with installation, operation, and guidance on the use of Energid technology. The Actin Support Package is a cost-effective and flexible way to receive expert assistance during any project stage.

SCHEDULE YOUR FREE CONSULTATION

Contact us to schedule a free 60-minute call with one of our lead Robotics Engineers to discuss your current program challenges! During this call, we can provide you with an assessment on whether or not our consulting services and the Actin SDK can provide a time-to-market or technical advantage to your program.

About Energid

Established in 2001 and headquartered in Cambridge, Massachusetts, United States, Energid develops advanced real-time motion control software for robotics. Energid's general robot control and tasking framework, Actin®, is built to meet the rigorous requirements of industrial, commercial, collaborative, and consumer robotic systems. Energid licenses Actin as a cross-platform software toolkit and provides integration services to help its customers get to market quickly.

